

415 REPAIR - REPLACE BITUMINOUS SURFACES AND BINDER

415.01 DESCRIPTION

This work shall consist of the covering of cuts in bituminous surfaces for underground installations, removing and replacing the binder and surface courses in defective areas, and miscellaneous minor construction; such repairs and construction to be executed as directed by the Engineer and to include all incidental work necessary to complete the repair as ordered.

415.02 MATERIALS

The materials for the repair work shall meet the requirements as specified for the type of pavement to be repaired.

For each asphalt mix, the Job Mix Formula shall conform to the requirements of 818.

415.03 CONSTRUCTION REQUIREMENTS

The Contractor shall not make excavations or pavement openings to a greater extent than can be replaced and repaved during the same working day unless otherwise approved by the Engineer. Bituminous Surface and Binder courses shall be replaced by new construction which closely conforms to the specifications for the type of material which was removed with the following additions.

(A) CUTTING OUT DEFECTIVE AREAS. All defective binder and surface course material shall be cut out and the loose material removed and disposed of outside the area of work at the Contractor's expense. This shall be accomplished as soon as possible and in no case shall the material be left on the project overnight.

(B) REPAIR OF CUTS. When the pavement base in the cut areas has been replaced, the existing asphalt must be sawn to a neat line and the base thoroughly cleaned and a tack coat applied before new surface material is placed upon it.

(C) CUTTING TO A NEAT LINE. The perimeter of all cuts and/or defective area repairs in asphalt roadways, alleys, sidewalks, gutters and other miscellaneous pavements which become part of the permanent roadway surface shall be cut to a neat line by means of power saw. All surface will be sawn to a minimum depth of 1 inch.

The new material shall be placed on the same day as the asphalt is removed adjacent to the neat line. Should the Contractor fail to place the asphalt surface the same day, a new saw cut may be required.

A hand torch will be available to remove patching material from the existing roadway.

No separate payment shall be made for the use of the power saw.

(D) COMPACTION OF BITUMINOUS MATERIAL. The bituminous mixture shall be compacted in accordance with the method specified for the type of pavement being repaired except that a 5-ton roller may be used where the area is less than 50 square yards. An approved vibrating roller may be used in areas where other rollers are not practicable. Binder and surface mixture adjacent to old pavement

or structures shall be tamped as in the case of the surface mix.

When directed by the Engineer, on any repairs, the asphalt binder course shall be omitted and replaced by the portland cement base concrete. This is intended for small repairs where it is impracticable to compact the binder course with a roller. The elevation of the finished concrete bases shall be sufficiently below the pavement surface to allow for the placing and proper compaction of the specified thickness of surface mixture.

The surface of the repaired area shall be left smooth and even with the adjoining surface. No vehicular traffic of any kind shall be permitted on the bituminous surface until it has hardened sufficiently.

415.04 WASTED MATERIAL

Deduction will be made for the actual quantity of materials wasted or not used after delivery.

415.05 MEASURE AND PAYMENT

(A) ASPHALT SURFACE. The unit of measure of Asphalt Surface of the type specified for covering cuts or street openings and for repairing asphalt pavements will be the ton. The actual number of tons measured complete in place will be paid for at the contract unit price per ton, which payment will include sawing, tacking, removing and disposing of existing materials and all labor, materials, tools, equipment and incidentals necessary to complete the work as specified herein.

(B) ASPHALTIC CONCRETE BINDER. The unit of measure for Asphaltic Concrete Binder, as used in sheet asphalt pavements, for covering cuts or street openings and for repairing sheet asphalt and asphalt block pavements, will be the ton. The actual number of tons measured complete in place will be paid for at the contract unit price per ton, which payment will include removal and disposal of existing materials and all labor, materials, tools, equipment and incidentals necessary to complete the work as specified herein.